

Amendments to the Claims:

Please amend the claims as follows:

1 – 19 (canceled)

20. (currently amended) A burner, comprising:

a means for providing a flow of compressed air and/or oxygen in a flow direction through a channel;

a means for creating a mixture in the channel, the mixture comprising the flow of compressed air and/or oxygen and a fuel, ~~wherein the concentration distribution of the fuel along a length of a first axis perpendicular to the flow direction is not constant in order to avoid combustion instabilities during operation of the burner,~~ the means for creating a mixture comprising fuel discharge openings arranged to create a concentration distribution of fuel within the mixture that is not constant across a distance defined along a length of a first axis which is oriented perpendicular to the flow direction in order to avoid combustion instabilities during operation of the burner; and

a means for imparting a swirl ~~of to~~ the mixture in the channel about the flow direction, the means for imparting swirl comprising a redirecting surface for redirecting the flow, wherein an outflow angle of the swirled mixture at a redirecting surface downstream end varies in magnitude in a single direction along ~~the a~~ a length of a second axis perpendicular to the flow direction.

21. (previously presented) The burner according to claim 20, wherein the burner has a burner longitudinal axis, and wherein the first axis intersects the burner longitudinal axis.

22. (currently amended) The burner according to claim 21, wherein the burner longitudinal axis represents an interior area of the burner, and the concentration distribution of the fuel decreases from the interior to an exterior portion of the burner located a distance away radially from the interior area.

23. (canceled).

24. (currently amended) The burner according to claim 20, wherein the ~~fuel, air, or oxygen is supplied to a channel, and the channel is embodied annularly around the~~ a burner longitudinal axis.

25. (previously presented) The burner according to claim 24, wherein a fuel-gas mixture flows in the channel.

26. (currently amended) A gas turbine combustion engine comprising the ~~The burner according to claim 20, wherein the burner is a gas turbine burner.~~

27. (currently amended) The burner according to claim 20, ~~wherein the burner~~ has further comprising a diffusion or pilot burner arranged centrally along a burner longitudinal axis.

28. (canceled).

29. (currently amended) The burner according to claim 20, wherein the redirecting surface is ~~burner has a channel and a swirl blade disposed in the channel.~~

30. (previously presented) The burner according to claim 29, wherein the fuel is supplied to the channel via a fuel nozzle in the swirl blade.

31. (previously presented) The burner according to claim 30, wherein the swirl blade has fuel nozzles with diameters that vary and produce the non-constant concentration distribution of the fuel.

32. (previously presented) The burner according to claim 31, wherein the burner has a burner longitudinal axis that represents an interior area of the burner and the burner has a radial direction disposed perpendicularly to the burner longitudinal axis, and the diameter of the fuel nozzles of an installed swirl blade decreases in the radial direction from the interior to an exterior portion of the burner located a distance away radially from the interior area.

33. (canceled)

34. (canceled)

35. (canceled)

36. (currently amended),

A burner, comprising:

a means for providing a flow of compressed air and/or oxygen in a flow direction in a channel; and

a ~~means~~ redirecting surface in the channel for imparting a swirl ~~of to~~ the flow about the flow direction,

wherein the burner has a burner longitudinal axis, the burner has a radial direction disposed perpendicularly to the burner longitudinal axis, ~~the burner has a channel is embodied annularly around the burner longitudinal axis in which a medium flows,~~ and the ~~flowing medium~~ flow has an outflow angle at a redirecting surface downstream end between its the flow direction and an axis perpendicular to the burner longitudinal axis, and the outflow angle varies along the radial direction in order to avoid combustion instabilities during operation of the burner.

37. (currently amended) The burner according to claim 36, wherein the burner has an interior area and the outflow angle decreases in the radial direction from an interior to an exterior portion of the burner located a distance away radially from the interior area.

38. (currently amended) The burner according to claim 36, wherein the burner ~~has~~redirecting surface is a swirl blade, the swirl blade having a bladed disk which is wound around a winding axis such that the flow flowing past the swirl blade in the flow direction along ~~an~~a downstream end of edge of the bladed disk forms an intersecting angle not equal to zero with the flow direction and the flow flowing past the swirl blade has different outflow angles.

39. (currently amended) The burner according to claim 38, wherein the burner has a radial direction disposed perpendicularly to the burner longitudinal axis and the outflow angle of the flow flowing past a swirl blade in the radial direction has different outflow angles at the swirl blade with the outflow angle decreasing in the radial direction from the interior to the exterior portion of the burner located a distance away radially from the interior area.